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06/03/2003

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L7 ANSWER 70 OF 87 CAPLUS COPYRIGHT 2003 ACS

AB Various Pt(II)-L-histidine (HL) complexes were prepd. by reaction of K₂PtCl₄ (I) or cis-[Pt(NH₃)₂Cl₂] (II) with HL and analyzed by ¹H and ¹³C NMR spectroscopy, electrophoresis, and ion-exchange chromatog. HL may be coordinated to Pt by the imidazole imino group and/or the .alpha.-amino group; the carboxy group always remains free. I reacted with HL and HCl to give 2 isomers of cis-Pt(HL)₂Cl₂ in which HL is coordinated through the amino N or imino N atom. II reacts with HL to give a mixt. of compds. including cis-Pt(NH₃)₂HL (III) and 3 isomers of cis-[Pt(NH₃)₂(HL)₂]Cl₂, differing in the monodentate mode of coordination of HL. The reaction of III with HCl gave 2 isomers of Pt(NH₃)(HL)Cl₂ in which HL is ligated to Pt by an amino or imino group. The methods applied are suitable for analyzing reactions of HL with II under model conditions similar to physiol. conditions.

ACCESSION NUMBER: 1985:124545 CAPLUS

DOCUMENT NUMBER: 102:124545

TITLE: The reaction of platinum antitumor drugs with selected nucleophiles. II. Preparation and characterization of coordination compounds of platinum(II) and L-histidine

AUTHOR(S): Saudek, V.; Pivcova, H.; Noskova, D.; Drobnik, J.

CORPORATE SOURCE: Inst. Macromol. Chem., Czech. Acad. Sci., Prague, 162 06, Czech.

SOURCE: Journal of Inorganic Biochemistry (1985), 23(1), 55-72
 CODEN: JIBIDJ; ISSN: 0162-0134

DOCUMENT TYPE: Journal

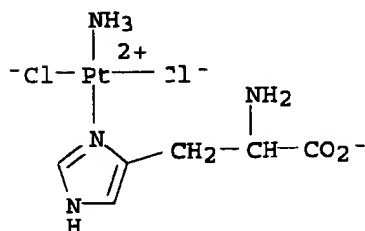
LANGUAGE: English

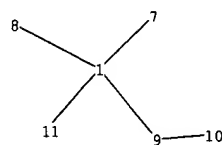
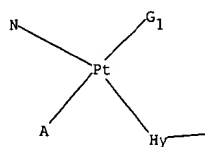
IT 95381-03-6P

RL: FORM (Formation, nonpreparative); PREP (Preparation)
 (formation of, from platinum histidine complex and hydrochloric acid)

RN 95381-03-6 CAPLUS

CN Platinate(1-), amminedichloro(L-histidinato-N3)-, hydrogen,
 monohydrochloride (9CI) (CA INDEX NAME)





chain nodes :

1 2 3 4 7 8 9 10 11

chain bonds :

1-7 1-8 1-9 1-11 2-3 2-4 9-10

exact/norm bonds :

1-7 1-9 1-11 2-3 2-4 9-10

exact bonds :

1-8

G1:OH,X,[*1]

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 7:CLASS 8:CLASS 9:Atom 10:CLASS 11:CLASS

Generic attributes :

9:

Saturation : Unsaturated

Number of Hetero Atoms : 2 or more

Type of Ring System : Monocyclic

L22 ANSWER 10 OF 63 CAPLUS COPYRIGHT 2001 ACS
1997:295135 CAPLUS

ACCESSION NUMBER:

126:311303

DOCUMENT NUMBER:

TITLE:

Platinum(II) nucleobase complexes containing up to four different ligands: syntheses and x-ray structure determinations of cis-[PtI(1-MeC)2(NH3)]ClO4 and [PtI(1-MeC)(9-EtGH)(NH3)]ClO4.cntdot.1.5H2O

AUTHOR(S):

Wienkotter, Thomas; Sabat, Michal; Trotscher-Kaus, Gabriele; Lippert, Bernhard
Fachbereich Chemie, Univ. Dortmund, Dortmund, D-44221, Germany

CORPORATE SOURCE:

SOURCE:

Inorg. Chim. Acta (1997), 255(2), 361-366
CODEN: ICHAA3; ISSN: 0020-1693

PUBLISHER:

Elsevier

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB A square-planar Pt(II) complex contg. four different ligands, including the two model nucleobases 1-methylcytosine (1-MeC) and 9-ethylguanine (9-EtGH), was prepd. and studied by x-ray crystallog. [PtI(1-MeC)(9-EtGH)(NH3)]ClO4.cntdot.1.5H2O (1) crystallizes in the monoclinic system, space group C2/c with a 16.577(3), b 16.638(2), c 17.923(3) .ANG., .beta. 114.37(1).degree., Z = 8. The two nucleobases which are platinated at N3 (1-MeC) and N7 (9-EtGH) are cis to each other and oriented in a way as to form a very weak H bond (3.39 .ANG.) between NH2(4) of 1-MeC and O(6) of 9-EtGH. The guanine ligand is trans to I-. The title compd. represents one of three possible geometrical isomers of compds. having this compn. A closely related complex, cis-[PtI(1-MeC)2(NH3)]ClO4 (3), has likewise been isolated and x-ray structurally characterized: triclinic system, space group P.hivin.1 with a 10.490(4), b 10.886(4), c 9.529(3) .ANG., .alpha. 94.18(3), .beta. 106.28(3), .gamma. 106.33(3).degree., Z = 2. In 3 the two 1-MeC bases are platinated at N3 and oriented head-tail, with intramol. H bonds of 3.22 and 2.95 .ANG. between pairs of NH2(4) and O(2) groups.

IT 161269-39-2

RL: RCT (Reactant)

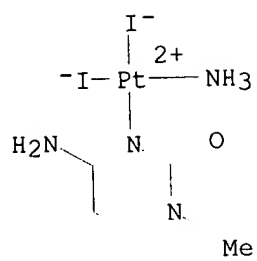
(for prepn. of platinum(II) nucleobase complexes contg. up to four different ligands)

RN 161269-39-2 CAPLUS

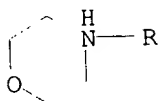
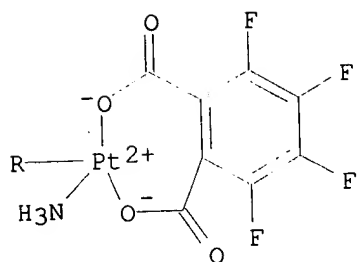
CN Platinum, (4-amino-1-methyl-2(1H)-pyrimidinone-.kappa.N3)amminediiodo-, (SP-4-1)- (9CI) (CA INDEX NAME)

Liu

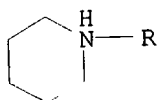
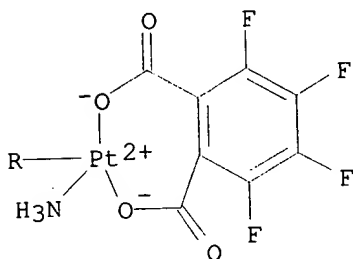
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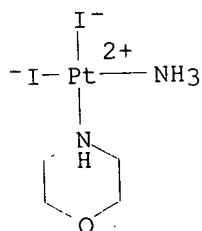
L22 ANSWER 13 OF 63 CAPLUS COPYRIGHT 2001
 1996:490063 CAPLUS
 125:211928
 TITLE: New perfluorophthalate complexes of platinum(II) with
 chemotherapeutic potential
 de Oliveira, M. B.; Miller, J.; Banks, R. E.; Kelland,
 L. R.; McAuliffe, C. A.; Mahmood, N.; Rowland, J. J.
 Dep. Chem., Fed. Univ. Paraiba, Joao Pessoa,
 58059-000, Brazil
 Met.-Based Drugs (1996), 3(3), 117-122
 CODEN: MBADEI; ISSN: 0793-0291
 Journal
 English
 DOCUMENT TYPE:
 LANGUAGE:
 AB Two new platinum(II) complexes have been synthesized and their anti-tumor
 and anti-HIV activities have been evaluated. The new complexes are: (i)
 cis-tetrafluorophthalate-amine-morpholine-platinum(II) or MMF3 and (ii)
 cis-tetrafluorophthalate-amine-piperidine-platinum(II) or MPF4. They
 were characterized by elemental anal., IR spectra and 1H and 13C NMR
 spectra. They were tested against five human ovarian carcinoma cell
 lines, viz., CH1, CH1cisR, A2780, A2780cisR and SKOV-3. They were less
 active than cis-platin and showed cross-resistance with cis-platin in the
 CH1cisR and A2780cisR acquired resistance lines. They were also tested
 for possible anti-HIV activity using the HIV-I IIIB virus and C8166 cells,
 but they were inactive compared with AZT.
 IT 181276-56-2P 181276-57-3P
 RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic
 preparation); THU (Therapeutic use); BIOL (Biological study); PREP
 (Preparation); USES (Uses)
 (antitumor and anti-HIV activities of new perfluorophthalate complexes
 with platinum(II) in human cells)
 RN 181276-56-2 CAPLUS
 CN Platinum, ammine(morpholine-N4)[3,4,5,6-tetrafluoro-1,2-
 benzenedicarboxylato(2-)-O1,O2]-, (SP-4-3)- (9CI) (CA INDEX NAME)



RN 181276-57-3 CAPLUS
 CN Platinum, ammine(piperidine) [3,4,5,6-tetrafluoro-1,2-benzenedicarboxylato(2-)-O1,O2]-, (SP-4-3)- (9CI) (CA INDEX NAME)

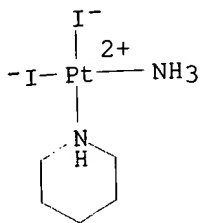


IT 103436-53-9P 116235-97-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (antitumor and anti-HIV activities of new perfluorophthalate complexes
 with platinum(II) in human cells)
 RN 103436-53-9 CAPLUS
 CN Platinum, amminediiodo(morpholine-N4)-, (SP-4-3)- (9CI) (CA INDEX NAME)



RN 116235-97-3 CAPLUS

CN Platinum, amminediiodo(piperidine)-, (SP-4-3)- (9CI) (CA INDEX NAME)



X22 ANSWER 20 OF 63 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1994:123362 CAPLUS
DOCUMENT NUMBER: 120:123362
TITLE: Structures of the nitroimidazole platinum group metal
complexes: cis-amminedibromo[1-(((2-
hydroxyethyl)amino)carbonyl)methyl)-2-
nitroimidazole]platinum(II) and trans-dichlorobis(1-
hydroxyethyl-2-methyl-5-nitroimidazole)palladium(II)
AUTHOR(S): Rochon, Fernande D.; Melanson, Robert; Farrell,
Nicholas
CORPORATE SOURCE: Dep. Chem., Univ. Quebec, Montreal, PQ, H3C 3P8, Can.
SOURCE: Acta Crystallogr., Sect. C: Cryst. Struct. Commun.
(1993), C49(10), 1703-6
CODEN: ACSCEE; ISSN: 0108-2701
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Cis-[PtBr₂L(NH₃)] (L = N-(2-hydroxyethyl)-2-nitroimidazole-1-acetamide
(etanidazole)) was prepd. and crystd. in orthorhombic, space group Pnca, Z
= 8, R = 0.062. Pt has a square-planar coordination. The Pt-Br bond

Searched by Barb O'Bryen, STIC 308-4291

trans to the nitroimidazole ligand is slightly shorter [2.375 (3) .ANG.] than the Pt-Br bond trans to NH₃ [2.397 (3) .ANG.]. The dihedral angle between the Pt coordination plane and the imidazole ring is 69.1.degree., while the nitro group makes an angle of 32.degree. with the imidazole ring plane. The structure is stabilized by the hydrogen bonding of the NH₃ ligands and the hydroxyl groups. The crystal structure was also detd. for trans-[PdCl₂L'₂] (L' = 2-methyl-5-nitroimidazole-1-ethanol (metronidazole)) monoclinic, space group P2₁/c, Z = 2, R = 0.027. The bond distances Pd-Cl = 2.297 (1) and Pt-N = 2.007 (2) .ANG.. The dihedral angle between the Pd coordination plane and the imidazole ring is 88.6 (1).degree., while the nitro groups make an angle of 3.9(3).degree. with the imidazole plane. The structure is stabilized by hydrogen bonding between the hydroxyl groups and the chloro ligands.

IT

152837-74-6P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and crystal structure of)

RN

152837-74-6 CAPLUS

CN

Platinum, amminedibromo[N-(2-hydroxyethyl)-2-nitro-1H-imidazole-1-acetamide-N3]-, (SP-4-3)- (9CI) (CA INDEX NAME)

